WHAT IS CLAIMED IS:

- 1. A polypeptide, comprising a component selected from the group consisting of:
 - (i) a polypeptide epitope having the sequence as disclosed in TABLE 1B;
 - (ii) an epitope cluster comprising the polypeptide of (i);
 - (iii) a polypeptide having substantial similarity to (i) or (ii);
 - (iv) a polypeptide having functional similarity to any of (i) through (iii); and
 - (v) a nucleic acid encoding the polypeptide of any of (i) through (iv).
- 2. The polypeptide of claim 1, wherein the polypeptide is immunologically active.
- 3. The polypeptide of claim 1, wherein the polypeptide is less than about 30 amino acids in length.
 - 4. The polypeptide of claim 1, wherein the polypeptide is 8 to 10 amino acids in length.
- 5. The polypeptide of claim 1, wherein the substantial or functional similarity comprises addition of at least one amino acid.
- 6. The polypeptide of claim 5, wherein the at least one additional amino acid is at an N-terminus of the polypeptide.
- 7. The polypeptide of claim 1, wherein the substantial or functional similarity comprises a substitution of at least one amino acid.
 - 8. The polypeptide of claim 1, the polypeptide having affinity to an HLA-A2 molecule.
- 9. The polypeptide of claim 8, wherein the affinity is determined by an assay of binding.
- 10. The polypeptide of claim 8, wherein the affinity is determined by an assay of restriction of epitope recognition.
- 11. The polypeptide of claim 8, wherein the affinity is determined by a prediction algorithm.
- 12. The polypeptide of claim 1, the polypeptide having affinity to an HLA-B7 or HLA-B51 molecule.
 - 13. The polypeptide of claim 1, wherein the polypeptide is a housekeeping epitope.
- 14. The polypeptide of claim 1, wherein the polypeptide corresponds to an epitope displayed on a tumor cell.
- 15. The polypeptide of claim 1, wherein the polypeptide corresponds to an epitope displayed on a neovasculature cell.
 - 16. The polypeptide of claim 1, wherein the polypeptide is an immune epitope.
 - 17. The polypeptide of claim 1, wherein the polypeptide is encoded by a nucleic acid.

- 18. A composition comprising the polypeptide of claim 1 and a pharmaceutically acceptable adjuvant, carrier, diluent, or excipient.
 - 19. The composition of claim 18, where the adjuvant is a polynucleotide.
- 20. The composition of claim 19 wherein the polynucleotide comprises a CpG dinucleotide.
 - 21. The composition of claim 18, wherein the adjuvant is encoded by a polynucleotide.
 - 22. The composition of claim 18 wherein the adjuvant is a cytokine.
 - 23. The composition of claim 23 wherein the cytokine is GM-CSF.
- 24. The composition of claim 18 further comprising a professional antigen-presenting cell (pAPC).
 - 25. The composition of claim 18, further comprising a second epitope.
 - 26. The composition of claim 25, wherein the second epitope is a polypeptide.
 - 27. The composition of claim 25, wherein the second epitope is a nucleic acid.
 - 28. The composition of claim 25, wherein the second epitope is a housekeeping epitope.
 - 29. The composition of claim 25, wherein the second epitope is an immune epitope.
 - 30. A recombinant construct comprising the nucleic acid of Claim 1.
- 31. The construct of claim 30, further comprising a plasmid, a viral vector, a bacterial vector, or an artificial chromosome.
- 32. The construct of claim 30, further comprising a sequence encoding at least one feature selected from the group consisting of a second epitope, an IRES, an ISS, an NIS, and ubiquitin.
- 33. A composition comprising at least one component selected from the group consisting of the epitope of claim 1; a composition comprising the polypeptide or nucleic acid of Claim 1; a composition comprising an isolated T cell expressing a T cell receptor specific for an MHC-peptide complex, the complex comprising the polypeptide of claim 1; a recombinant construct comprising the nucleic acid of Claim 1; an isolated T cell expressing a T cell receptor specific for an MHC-peptide complex, the complex comprising the polypeptide of claim 1; a host cell expressing a recombinant construct comprising a nucleic acid encoding a T cell receptor binding domain specific for an MHC-peptide complex and a composition comprising the same, and a host cell expressing a recombinant construct comprising the nucleic acid of claim 1 and a composition comprising the same; with a pharmaceutically acceptable adjuvant, carrier, diluent, or excipient.
 - 34. A method of treating an animal, comprising: administering to an animal the composition of claim 33.

- 35. The method of claim 34, wherein the administering step comprises a mode of delivery selected from the group consisting of transdermal, intranodal, perinodal, oral, intravenous, intradermal, intramuscular, intraperitoneal, mucosal, aerosol inhalation, and instillation.
- 36. The method of claim 34, further comprising a step of assaying to determine a characteristic indicative of a state of a target cell or target cells.
- 37. The method of claim 36, comprising a first assaying step and a second assaying step, wherein the first assaying step precedes the administering step, and wherein the second assaying step follows the administering step.
- 38. The method of claim 37, further comprising a step of comparing the characteristic determined in the first assaying step with the characteristic determined in the second assaying step to obtain a result.
- 39. The method of claim 38, wherein the result is selected from the group consisting of: evidence of an immune response, a diminution in number of target cells, a loss of mass or size of a tumor comprising target cells, a decrease in number or concentration of an intracellular parasite infecting target cells.
 - 40. A method of making a vaccine, comprising:

combining at least one component selected from the group consisting of the polypeptide of claim 1; a composition comprising the polypeptide or nucleic acid of Claim 1; a composition comprising an isolated T cell expressing a T cell receptor specific for an MHC-peptide complex, the complex comprising the polypeptide of claim 1; a composition comprising a host cell expressing a recombinant construct, the construct comprising the nucleic acid of claim 1, or the construct encoding a protein molecule comprising the binding domain of a T cell receptor specific for an MHC-peptide complex; a recombinant construct comprising the nucleic acid of Claim 1; an isolated T cell expressing a T cell receptor specific for an MHC-peptide complex, the comprising the polypeptide of claim 1; and a host cell expressing a recombinant construct, the construct comprising the nucleic acid of claim 1, or the construct encoding a protein molecule comprising the binding domain of a T cell receptor specific for an MHC-peptide complex; with a pharmaceutically acceptable adjuvant, carrier, diluent, or excipient.